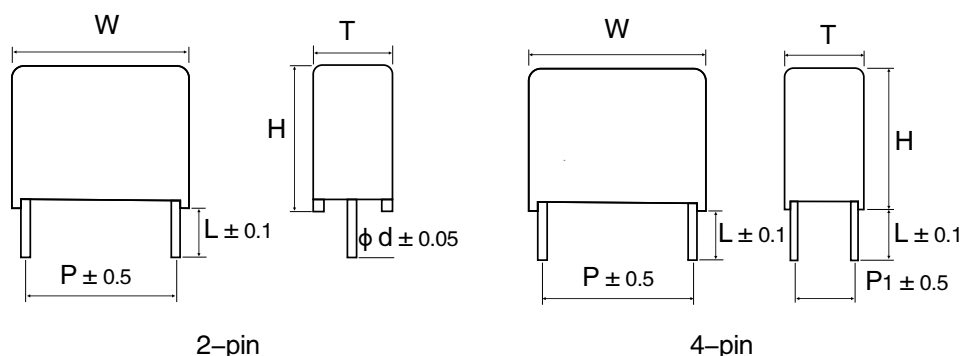


# FILM CAPACITORS

## Dclink 用金屬化聚丙烯膜電容器

### Metallized Polypropylene Film Capacitor for Dclink application



#### 特點

- 低損失角
- 低等效串聯電阻和雜散電感
- 良好自愈性
- 高穩定性和可靠性

#### 結構

- 金屬化PP膜無感結構
- 銅導線或銅端子引出
- 阻燃性塑膠殼，環氧樹脂封裝
- 幹式電容

#### 典型應用

- 用途：高性能直流濾波場合，如：變頻器，工業和高端電源，太陽能逆變器等。

#### FEATURES:

- Very low dissipation factor
- Very low ESR and ESL
- Excellent self-healing performance
- High stability and reliability

#### STRUCTURE:

- Metallised Polypropylene film Non-inductive construction.
- CU lead wire or Cu terminals connected .
- Flame retardant plastic case and epoxy resin encapsulated .
- Dry type structure .

#### TYPE APPLICATION:

- Frequency converters , Industrial and high-end power supplies ,Solar inverter .

#### 電氣特性/ Specifications ( 在額定功率和額定溫度下 )

電容器類別/Class	MKP							
引用標準/Reference standard	IEC61071,GBT17702.1:2013							
氣候類別/Climatic category	40/85/21							
工作溫度/Operating Temperature	-40°C~+105°C (+85°C~+105°C:derating factor1.5% per°C for Un(DC)and AC current Irms,85°C ~ 105°C時Dc電壓和AC電流Irms衰減系數 1.5%/度)							
Uopdc at 70°C 運行電壓	500V	600V	800V	900V	1000V	1200V	1300V	
Undc at 85°C 額定電壓	450V	500V	700V	800V	900V	1100V	1200V	
Uopdc at 105°C 運行電壓	300V	350V	490V	560V	630V	770V	840V	
Capacitance range( μ F)	3-100	2-100	2-80	2-60	2-50	1-35	0.68-25	
散逸因素/Dissipation Factor	≤0.0030 ( 1Khz,25°C ),C ≤50uF; ≤0.0120 ( 1Khz,25°C),50uF < C ≤ 100uF							
容量偏差/Capacitance tolerance	± 5%(J), ± 10%(K)							
絕緣電阻/Insulation Resistance	≥30,000s (100VDC,60s,20°C)							
ESR(at 10KHZ)	ESR< 3* ESRtyp							
端子間耐電壓 ( Vtt)/Withstand Voltage between T/T	1.5*Undc , 10s							
端子對外殼耐電壓/Withstand Voltage between T/C	3000Vac / 50HZ, 60S							
自有電感/self inductance	≤ 1nH/mm of fixed pitch							
工作壽命/Operation life time	100, 000 hrs at Un and 70°C							

\*note : We can design the capacitors as customer's requests 可依照客戶需求設計。

MKP capacitor for DC-LINK application, C:3.3~100  $\mu$ F $U_{op}=500VDC$  at  $70^{\circ}C$  ;  $U_N=450vdc$  at  $85^{\circ}C$  ;  $U_{op}=300vdc$  at  $105^{\circ}C$  ;

容量 ( $\mu$ F)	成品 W ( $\pm 1mm$ )	成品 H ( $\pm 1mm$ )	成品 T ( $\pm 1mm$ )	Pitch ( $\pm 1mm$ )	Pitch1 ( $\pm 1mm$ )	d $\phi$ & t ( $\pm 0.2mm$ )	dV/dT (V/ $\mu$ s)	I <sub>peak</sub> (A)	I <sub>rms</sub> (70°C) (A)	ESR(10KHz) (m $\Omega$ )	CC
3.3	32	20	11	27.5	-	0.8	26	86	3	15	TP32
4.7	32	22	13	27.5	-	0.8	26	122	4	12	TP34
5	32	22	13	27.5	-	0.8	26	130	4	11	TP34
6.8	32	25	15	27.5	-	1	26	177	5	9.5	TP36
7	32	25	15	27.5	-	1	26	182	5	9.5	TP36
7.5	32	25	15	27.5	-	1	26	195	5	9	TP36
8	32	25	15	27.5	-	1	26	208	6	8.5	TP36
10	32	28	17	27.5	-	1	26	260	7	7.5	TP37
10	32	33	18	27.5	-	1	26	260	7.5	7	TP3A
12	32	30	18	27.5	-	1	26	312	8	6.5	TP39
12	32	33	18	27.5	-	1.2	26	312	8.5	6.5	TP3A
15	32	33	18	27.5	-	1	26	390	8.5	6.5	TP3A
15	32	35	20	27.5	-	1.2	26	390	9	6.5	TP3c
18	32	35	20	27.5	-	1.2	26	468	9.5	6.5	TP3c
20	32	37	22	27.5	-	1.2	26	520	10	6	TP3C
22	32	37	22	27.5	-	1.2	26	572	10	6	TP3C
10	42.5	28	17	37.5	-	1	20	200	7	11	TP49
10	42.5	19	24	37.5	-	1	20	200	7	11	TP4a
12	42.5	28	17	37.5	-	1	20	240	7.5	10	TP49
12	42.5	18	27	37.5	10.2	1	20	240	8.5	11	TP4Y
15	42.5	30	22	37.5	10.2	1	20	300	9	11	TP4R
15	42.5	30	22	37.5	10.2	1.2	20	300	10	10	TP4R
20	42.5	33.5	22	37.5	10.2	1.2	20	400	11	10	TP45
25	42.5	37	28	37.5	10.2	1.2	20	500	11.5	9	TP4S
30	42.5	37	28	37.5	10.2	1.2	20	600	12	9	TP4S
30	42.5	44	24	37.5	10.2	1.2	20	600	12	9	TP4W
35	42.5	45	30	37.5	20.3	1.2	20	700	12.5	9	P422
40	42.5	45	30	37.5	20.3	1.2	20	800	13.5	9	P422
40	57.5	45	25	52.5	10.2	1.2	14	560	12	9	TP56
45	57.5	45	25	52.5	10.2	1.2	14	630	13	9	TP56
50	57.5	45	30	52.5	20.3	1.2	14	700	14	9	TP5F
55	57.5	45	30	52.5	20.3	1.2	14	770	15	8.5	TP5F
60	57.5	45	30	52.5	20.3	1.2	14	840	16	8.5	TP5F
65	57.5	50	35	52.5	20.3	1.2	14	910	17	8	TP5E
70	57.5	50	35	52.5	20.3	1.2	14	980	17.5	8	TP5E
75	57.5	50	35	52.5	20.3	1.2	14	1050	18	8	TP5E
80	57.5	50	35	52.5	20.3	1.2	14	1120	18.5	7.5	TP5E
85	57.5	57.5	38	52.5	20.3	1.2	14	1190	18.5	7.5	P571
90	57.5	57.5	38	52.5	20.3	1.2	14	1260	19	7	P571
95	57.5	57.5	38	52.5	20.3	1.2	14	1330	19	7	P571
100	57.5	57.5	38	52.5	20.3	1.2	14	1400	19	7	P571
85	57.5	53	50	Lt	-	-	14	1190	19.5	6	P572
90	57.5	53	50	Lt	-	-	14	1260	19.5	6	P572
95	57.5	53	50	Lt	-	-	14	1330	20	6	P572
100	57.5	53	50	Lt	-	-	14	1400	20	6	P572

# FILM CAPACITORS

MKP capacitor for DC-LINK application, C:3.3~100  $\mu$ F

U<sub>op</sub>=600VDC at 70°C ; U<sub>N</sub>=500vdc at 85°C ; U<sub>op</sub>=350vdc at 105°C ;

容量 ( $\mu$ F)	成品 W ( $\pm$ 1mm)	成品 H ( $\pm$ 1mm)	成品 T ( $\pm$ 1mm)	Pitch ( $\pm$ 1mm)	Pitch1 ( $\pm$ 1mm)	d $\phi$ & t ( $\pm$ 0.2mm)	dV/dT (V/ $\mu$ s)	I <sub>peak</sub> (A)	I <sub>rms</sub> (70° C) (A)	ESR(10KHz) (m $\Omega$ )	CC
3.3	32	22	13	27.5	-	0.8	30	99	3	15	TP34
4.7	32	25	15	27.5	-	0.8	30	141	4	12	TP36
5	32	25	15	27.5	-	1	30	150	4.5	11	TP36
6.8	32	28	17	27.5	-	1	30	204	5	9.5	TP37
7	32	28	17	27.5	-	1	30	210	5	9.5	TP37
7.5	32	28	17	27.5	-	1	30	225	5.5	9	TP37
8	32	28	17	27.5	-	1	30	240	6.5	8.5	TP37
10	32	33	18	27.5	-	1	30	300	7.5	7.5	TP3A
10	32	33	18	27.5	-	1.2	30	300	8	7.5	TP3A
12	32	35	20	27.5	-	1.2	30	360	9	7	TP3c
15	32	37	22	27.5	-	1.2	30	450	10	6.5	TP3C
10	42.5	28	17	37.5	-	1	20	200	7	11	TP49
10	42.5	19	24	37.5	-	1	20	200	7.5	11	TP4a
12	42.5	28	17	37.5	-	1	20	240	7.5	10	TP49
12	42.5	18	27	37.5	10.2	1	20	240	8.5	11	TP4Y
15	42.5	30	22	37.5	10.2	1	20	300	9	11	TP4R
15	42.5	30	22	37.5	10.2	1	20	300	10	10	TP4R
20	42.5	33.5	22	37.5	10.2	1	20	400	11	10	TP45
25	42.5	37	28	37.5	10.2	1.2	20	500	11.5	9	TP4S
30	42.5	37	28	37.5	10.2	1.2	20	600	12	9	TP4S
30	42.5	44	24	37.5	10.2	1.2	20	600	12	9	TP4W
35	42.5	45	30	37.5	20.3	1.2	20	700	12.5	9	P422
40	42.5	45	30	37.5	20.3	1.2	20	800	13.5	9	P422
40	57.5	45	25	52.5	10.2	1.2	14	560	12	9	TP56
45	57.5	45	25	52.5	10.2	1.2	14	630	13	9	TP56
50	57.5	45	30	52.5	20.3	1.2	14	700	14	9	TP5F
55	57.5	45	30	52.5	20.3	1.2	14	770	15	8.5	TP5F
60	57.5	45	30	52.5	20.3	1.2	14	840	16	8.5	TP5F
65	57.5	50	35	52.5	20.3	1.2	14	910	17	8	TP5E
70	57.5	50	35	52.5	20.3	1.2	14	980	17.5	8	TP5E
75	57.5	50	35	52.5	20.3	1.2	14	1050	18	8	TP5E
80	57.5	50	35	52.5	20.3	1.2	14	1120	18.5	7.5	TP5E
85	57.5	57.5	38	52.5	20.3	1.2	14	1190	18.5	7.5	P571
90	57.5	57.5	38	52.5	20.3	1.2	14	1260	19	7	P571
95	57.5	57.5	38	52.5	20.3	1.2	14	1330	19	7	P571
100	57.5	57.5	38	52.5	20.3	1.2	14	1400	19	7	P571
85	57.5	53	50	Lt	-	-	14	1190	19.5	6	P572
90	57.5	53	50	Lt	-	-	14	1260	19.5	6	P572
95	57.5	53	50	Lt	-	-	14	1330	20	6	P572
100	57.5	53	50	Lt	-	-	14	1400	20	6	P572

$U_{op}=800VDC$  at  $70^{\circ}C$  ;  $U_N=700vdc$  at  $85^{\circ}C$  ;  $U_{op}=490vdc$  at  $105^{\circ}C$  ;

容量 (uF)	成品 W (±1mm)	成品 H (±1mm)	成品 T (±1mm)	Pitch (±1mm)	Pitch1 (±1mm)	d φ & t (±0.2mm)	dV/dT (V/μs)	I <sub>peak</sub> (A)	I <sub>rms</sub> (70°C) (A)	ESR(10KHz) (mΩ)	CC
2	32	20	11	27.5	-	0.8	35	70	3	30	TP32
2.5	32	20	11	27.5	-	0.8	35	88	3.5	25	TP32
3	32	22	13	27.5	-	0.8	35	105	4	23	TP34
3.5	32	22	13	27.5	-	0.8	35	123	4	20	TP34
4	32	25	15	27.5	-	1	35	140	4.5	17	TP36
4.5	32	25	15	27.5	-	1	35	158	5	15	TP36
5	32	28	17	27.5	-	1	35	175	5.5	14	TP37
6	32	28	17	27.5	-	1	35	210	6	11.5	TP37
6.5	32	30	18	27.5	-	1	35	228	6.5	11	TP39
7	32	30	18	27.5	-	1	35	245	6.5	10	TP39
8	32	33	18	27.5	-	1	35	280	7	8.5	TP3A
9	32	35	20	27.5	-	1	35	315	7.5	8	TP3c
10	32	34.5	17	27.5	-	1	35	350	7.5	6.5	TP38
10	32	35	20	27.5	-	1	35	350	8	7	TP3c
10	32	31	21.5	27.5	-	1	35	350	8	6.5	TP3F
10	32	31	21.5	27.5	-	1.2	35	350	9	6.5	TP3F
12	32	37	22	27.5	-	1.2	35	420	10	6.5	TP3C
10	42.5	28	17	37.5	10.2	1	22	220	8	12	TP49
10	42.5	18	27	37.5	10.2	1	22	220	8	12	TP4Y
12	42.5	30	22	37.5	10.2	1	22	264	9	11.5	TP4R
15	42.5	30	22	37.5	10.2	1	22	330	10.5	8	TP4R
15	42.5	30	22	37.5	10.2	1	22	330	10.5	8	TP4R
15	42.5	24	30	37.5	10.2	1	22	330	10.5	8	TP4Z
20	42.5	44	24	37.5	10.2	1	22	440	11.5	7	TP4W
20	42.5	37	28	37.5	10.2	1	22	440	11.5	6	TP4S
25	42.5	44	24	37.5	10.2	1.2	22	550	12.5	5.5	TP4W
25	42.5	27	40	37.5	20.3	1.2	22	550	13	5.5	P420
30	42.5	45	30	37.5	20.3	1.2	22	660	14	5	P422
33	42.5	45	30	37.5	20.3	1.2	22	726	15	4	P422
30	57.5	45	25	52.5	20.3	1.2	15	450	12	8	TP56
35	57.5	45	25	52.5	20.3	1	15	525	12.5	7	TP56
35	57.5	45	25	52.5	20.3	1.2	15	525	13	7	TP56
40	57.5	45	25	52.5	20.3	1.2	15	600	13.5	6	TP56
40	57.5	45	30	52.5	20.3	1.2	15	600	13.5	6	TP5F
45	57.5	45	30	52.5	20.3	1.2	15	675	15	5.5	TP5F
47	57.5	45	30	52.5	20.3	1.2	15	705	16	5.5	TP5F
50	57.5	50	35	52.5	20.3	1.2	15	750	16	5	TP5E
55	57.5	50	35	52.5	20.3	1.2	15	825	17	4.5	TP5E
60	57.5	50	35	52.5	20.3	1.2	15	900	18	4	TP5E
63	57.5	50	35	52.5	20.3	1.2	15	945	19	4	TP5E
65	57.5	50	35	52.5	20.3	1.2	15	975	19	4	TP5E
70	57.5	57.5	38	52.5	20.3	1.2	15	1050	20	3.5	P571
75	57.5	57.5	38	52.5	20.3	1.2	15	1125	21.5	3	P571
80	57.5	57.5	38	52.5	20.3	1.2	15	1200	21.5	3	P571
65	57.5	53	50	52.5	20.3	1.2	15	975	19	4	P572
70	57.5	53	50	Lt	-	-	15	1050	20	3.5	P572
75	57.5	53	50	Lt	-	-	15	1125	21.5	3	P572
80	57.5	53	50	Lt	-	-	15	1200	21.5	3	P572

# FILM CAPACITORS

U<sub>op</sub>=900VDC at 70°C ; U<sub>N</sub>=800vdc at 85°C ; U<sub>op</sub>=560vdc at 105°C ;

容量 (uF)	成品 W (± 1mm)	成品 H (± 1mm)	成品 T (± 1mm)	Pitch (± 1mm)	Pitch1 (± 1mm)	d φ &t (± 0.2mm)	dV/dT (V/μ s)	I <sub>peak</sub> (A)	I <sub>rms</sub> (70° C) (A)	ESR(10KHz) (mΩ)	CC
2	32	22	13	27.5	-	1	36	72	4	30	TP34
3.3	32	25	15	27.5	-	1	36	118.8	5	20	TP36
5	32	33	18	27.5	-	1	36	180	6	13	TP3A
8	32	37	22	27.5	-	1	36	288	7.5	10	TP3C
5	42.5	28	17	37.5	-	1	24	120	6	16	TP49
5	42.5	19	24	37.5	-	1	24	120	6.5	16	TP4a
7.5	42.5	19	24	37.5	-	1	24	180	7.5	15	TP4a
10	42.5	30	22	37.5	10.2	1	24	240	10	11	TP4R
15	42.5	37	28	37.5	10.2	1.2	24	360	11	8	TP4S
15	42.5	40	20	LT	-	-	24	360	12	8	P421
20	42.5	45	30	37.5	20.3	1.2	24	480	12	7	P422
20	42.5	44	24	LT	-	-	24	480	12.5	7	TP4W
22	42.5	45	30	37.5	20.3	1.2	24	528	12.5	6.5	P422
25	42.5	45	30	37.5	20.3	1.2	24	600	13.5	6.5	P422
30	42.5	48	33	37.5	20.3	1.2	24	720	15	6	P423
30	57.5	45	30	52.5	20.3	1.2	15	450	13.5	6	TP5F
35	57.5	45	30	52.5	20.3	1.2	15	525	14	6	TP5F
40	57.5	50	35	52.5	20.3	1.2	15	600	14.5	6	TP5E
45	57.5	50	35	52.5	20.3	1.2	15	675	15.5	6	TP5E
50	57.5	50	35	52.5	20.3	1.2	15	750	16.5	5.5	TP5E
55	57.5	57.5	38	52.5	20.3	1.2	15	825	17.5	5.5	P571
60	57.5	57.5	38	52.5	20.3	1.2	15	900	19	5.5	P571
45	57.5	53	50	Lt	-	-	15	675	16	4.5	P572
50	57.5	53	50	Lt	-	-	15	750	17	4	P572
60	57.5	53	50	Lt	-	-	15	900	19	4	P572

$U_{op}=1000VDC$  at  $70^{\circ}C$  ;  $U_N=900vdc$  at  $85^{\circ}C$  ;  $U_{op}=630vdc$  at  $105^{\circ}C$  ;

容量 (uF)	成品 W (±1mm)	成品 H (±1mm)	成品 T (±1mm)	Pitch (±1mm)	Pitch1 (±1mm)	d φ & t (±0.2mm)	dV/dT (V/μs)	I <sub>peak</sub> (A)	I <sub>rms</sub> (70°C) (A)	ESR(10KHz) (mΩ)	CC
0.47	32	20	11	27.5	-	0.8	150	71	2.5	50	TP32
0.68	32	22	13	27.5	-	0.8	150	102	3.5	35	TP34
1	32	22	13	27.5	-	1	150	150	4.5	25	TP34
1.5	32	28	17	27.5	-	1	150	225	7	18	TP37
2	32	35	20	27.5	-	1	150	300	7.5	15	TP3c
2.2	32	35	20	27.5	-	1	150	330	8	12	TP3c
3	32	37	22	27.5	-	1	150	450	9	10	TP3C
2.2	32	22	13	27.5	-	1	45	99	4.5	25	TP34
2.5	32	25	15	27.5	-	1	45	113	4.5	25	TP36
3	32	25	15	27.5	-	1	45	135	5	21	TP36
3.3	32	28	17	27.5	-	1	45	149	5.5	20	TP37
4	32	28	17	27.5	-	1	45	180	6	16	TP37
4.7	32	30	18	27.5	-	1	45	212	6.5	14	TP39
5	32	33	18	27.5	-	1	45	225	7	13	TP3A
6	32	31	22	27.5	-	1	45	270	8	10	TP3F
7	32	35	20	27.5	-	1.2	45	315	9	9	TP3c
5	42.5	28	17	37.5	-	1	29	145	7	16	TP49
5	42.5	19	24	37.5	-	1	29	145	7	16	TP4a
6	42.5	28	17	37.5	-	1	29	174	7.5	16	TP49
7	42.5	30	22	37.5	-	1	29	203	7	15	TP4R
7.5	42.5	30	22	37.5	-	1	29	218	8	15	TP4R
8	42.5	30	22	37.5	10.2	1	29	232	9	14	TP4R
9	42.5	30	22	37.5	10.2	1	29	261	10	12	TP4R
10	42.5	33.5	22	37.5	10.2	1	29	290	11	11	TP45
12	42.5	40	20	37.5	10.2	1	29	348	11.5	9	P421
15	42.5	37	28	37.5	10.2	1	29	435	12.5	8	TP4S
15	42.5	37	28	LT	-	-	29	435	14	8	TP4S
15	42.5	44	24	37.5	10.2	1.2	29	435	12.5	8	TP4W
15	42.5	44	24	LT	-	-	29	435	14	8	TP4W
20	42.5	45	30	37.5	20.3	1.2	29	580	14	7	P422
20	42.5	45	30	37.5	LT	-	29	580	15	7	P422
20	57.5	45	25	52.5	10.2	1.2	20	400	11	7	TP56
25	57.5	45	30	52.5	20.3	1.2	20	500	12	6.5	TP5F
25	57.5	45	30	52.5	LT	-	20	500	13	6.5	TP5F
30	57.5	45	30	52.5	20.3	1.2	20	600	14	6	TP5F
35	57.5	50	35	52.5	20.3	1.2	20	700	15	6	TP5E
40	57.5	50	35	52.5	20.3	1.2	20	800	16	6	TP5E
45	57.5	57.5	38	52.5	20.3	1.2	20	900	17	6	P571
50	57.5	57.5	38	52.5	20.3	1.2	20	1000	17.5	5.5	P571
40	57.5	53	50	Lt	-	-	20	800	17.5	5	P572
45	57.5	53	50	Lt	-	-	20	900	18.5	4.5	P572
50	57.5	53	50	Lt	-	-	20	1000	19	4	P572

FILM CAPACITORS

$U_{op}=1200VDC$  at  $70^{\circ}C$  ;  $U_N=1100vdc$  at  $85^{\circ}C$  ;  $U_{op}=770vdc$  at  $105^{\circ}C$  ;

容量 (uF)	成品 W (± 1mm)	成品 H (± 1mm)	成品 T (± 1mm)	Pitch (± 1mm)	Pitch1 (± 1mm)	d φ & t (± 0.2mm)	dV/dT (V/μs)	Ipeak (A)	Irms(70°C) (A)	ESR (10KHz) (mΩ)	CC
1	32	20	11	27.5	–	0.8	50	50	3.5	22	TP32
2	32	25	15	27.5	–	1	50	100	5.5	18	TP36
3	32	30	18	27.5	–	1	50	150	6	16	TP39
4	32	35	20	27.5	–	1	50	200	7	12	TP3c
5	32	37	22	27.5	–	1	50	250	8	10	TP3C
5	32	37	22	27.5	10.2	1	50	250	8.5	9.5	TP3C
5	42.5	30	22	37.5	10.2	1	34	170	8	16	TP4R
6	42.5	30	22	37.5	10.2	1	34	204	9	13.5	TP4R
7.5	42.5	37	28	37.5	10.2	1	34	255	10	11	TP4S
10	42.5	44	24	37.5	10.2	1.2	34	340	12	8	TP4W
12	42.5	45	30	37.5	20.3	1.2	34	408	13	6.5	P422
14	42.5	45	30	37.5	20.3	1.2	34	476	14	6	P422
15	57.5	45	25	52.5	20.3	1.2	23	345	13	10.5	TP56
20	57.5	45	30	52.5	20.3	1.2	23	460	13.5	8	TP5F
25	57.5	50	35	52.5	20.3	1.2	23	575	14	6.5	TP5E
30	57.5	57.5	38	52.5	20.3	1.2	23	690	15	5	P571
35	57.5	57.5	38	52.5	20.3	1.2	23	805	16	5	P571
20	57.5	53	50	Lt	–	–	23	460	14	7	P572
25	57.5	53	50	Lt	–	–	23	575	15	6.5	P572
30	57.5	53	50	Lt	–	–	23	690	16	6	P572
35	57.5	53	50	Lt	–	–	23	805	17	5	P572

$U_{op}=1300VDC$  at  $70^{\circ}C$  ;  $U_N=1200vdc$  at  $85^{\circ}C$  ;  $U_{op}=840vdc$  at  $105^{\circ}C$  ;

容量 (uF)	成品 W (± 1mm)	成品 H (± 1mm)	成品 T (± 1mm)	Pitch (± 1mm)	Pitch1 (± 1mm)	d φ & t (± 0.2mm)	dV/dT (V/μs)	Ipeak (A)	Irms(70°C) (A)	ESR (10KHz) (mΩ)	CC
0.68	32	20	11	27.5	–	1	61	41.5	4	25	TP32
1	32	22	13	27.5	–	1	61	61	4.5	22	TP36
2	32	28	17	27.5	–	1	61	122	6	21	TP36
3	32	35	20	27.5	–	1	61	183	7	15	TP35
3.6	32	37	22	27.5	–	1	61	220	8	14	TP37
4	42.5	30	22	37.5	10.2	1	41	164	8	17	TP4R
5	42.5	33.5	22	37.5	10.2	1	41	205	9	15	TP45
6	42.5	37	28	37.5	10.2	1	41	246	10	12.5	TP4S
7	42.5	37	28	37.5	10.2	1.2	41	287	11	11	TP4S
8	42.5	45	30	37.5	20.3	1.2	41	328	11.5	9	P422
10	42.5	45	30	37.5	20.3	1.2	41	410	12.5	8	P422
12	57.5	45	25	52.5	20.3	1.2	28	336	13	12.5	TP56
15	57.5	45	30	52.5	20.3	1.2	28	420	13.5	11	TP5F
20	57.5	50	35	52.5	20.3	1.2	28	560	14.5	7.5	TP5H
25	57.5	57.5	38	52.5	20.3	1.2	28	700	15.5	6	P571
20	57.5	53	50	LT	–	–	28	560	15	5	P572
25	57.5	53	50	LT	–	–	28	700	16	5	P572